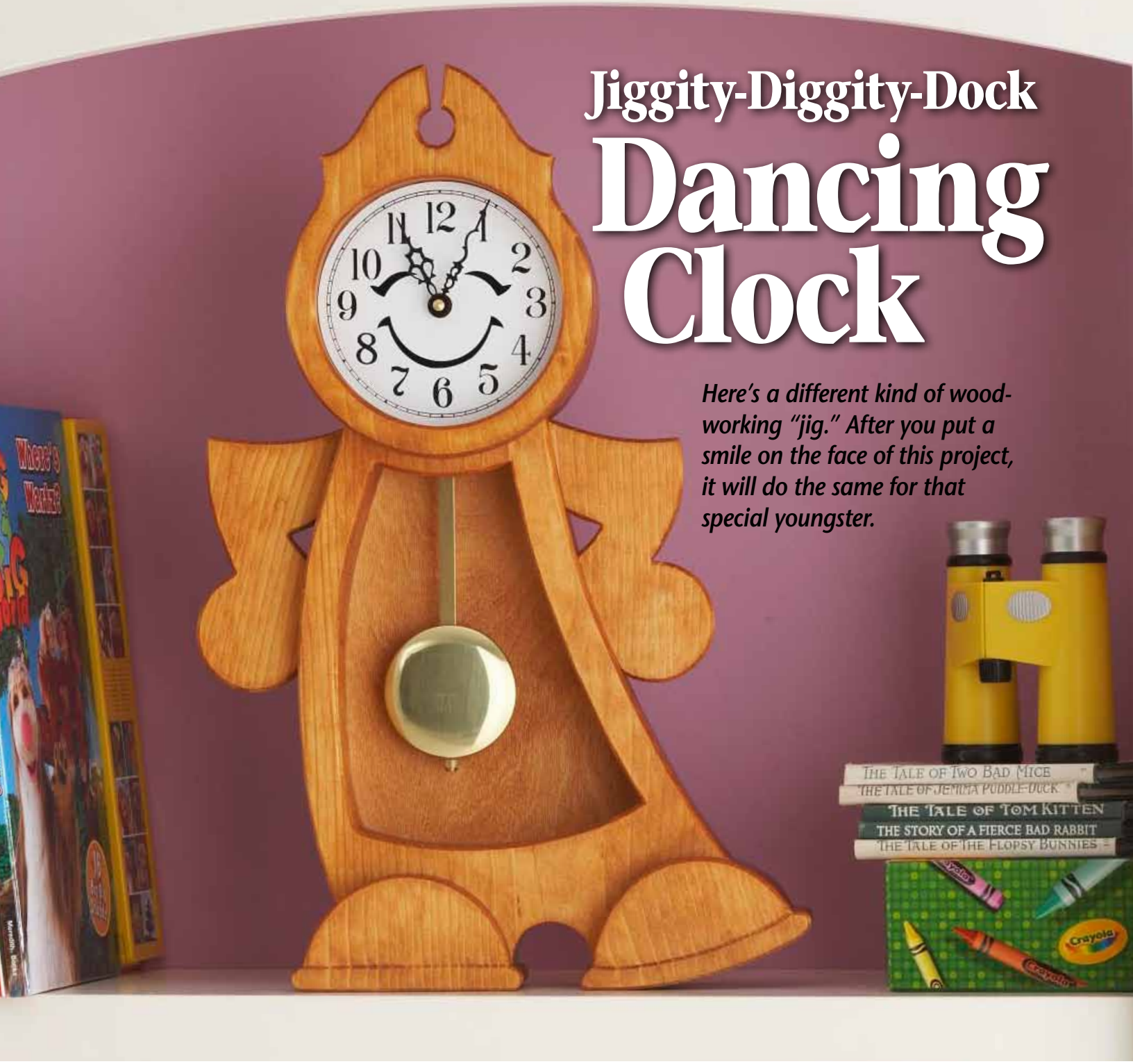
Jiggity-Diggity-Dock
Dancing Clock

Here's a different kind of wood-working "jig." After you put a smile on the face of this project, it will do the same for that special youngster.


THE TALE OF TWO BAD MICE
THE TALE OF JEMIMA PUDDLE-DUCK
THE TALE OF TOM KITTEN
THE STORY OF A FIERCE BAD RABBIT
THE TALE OF THE FLOPSY BUNNIES
Crayola

Start with a 6-foot 1×12 on Saturday morning and by Sunday night, this happy character will brighten up a child's room. The clock movement and dial are part of a convenient kit (**Source**, *page 74*).

Swing into action

1 Prepare three ¾×10⅞×17⅜" pine blanks and one ¾×6⅜×8⅛" blank [**Drawing 1**]. You'll also need a 12×12" piece of ¼" plywood.

2 Make four copies of the **Clock Top Pattern** and the **Clock Bottom Pattern** from the *WOOD Patterns*® insert. Tape the patterns together where indicated and set one copy aside for shaping the backs (H, I) later. From one copy, cut out the patterns for the arms (C, D), head (E), and shoes (F, G). Cut and discard the arms from the remaining patterns. Spray-adhere the patterns to the blanks [**Drawing 1**]. At the bandsaw, rough-cut the arm (C) and shoe (F) from the body back (B) blank. Glue the remaining body back blank to a piece of ¾"-thick stock to make part B 1½" thick [**Drawing 2**].

3 Highlight the lines to cut on each pattern [**Photo A, Drawing 1**]. Drill a 21/64" hole where indicated on the body front (A) and a ¾" hole where indicated at the top of the head (E). Bandsaw to within 1/16" of the lines on all the pieces [**Photo B**] and sand them to shape.

4 Remove the pattern from the body back (B) and glue the body front (A)

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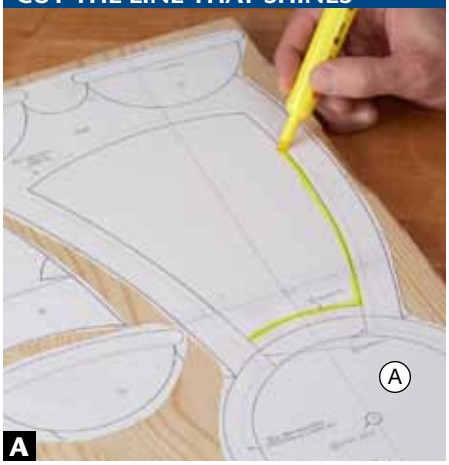
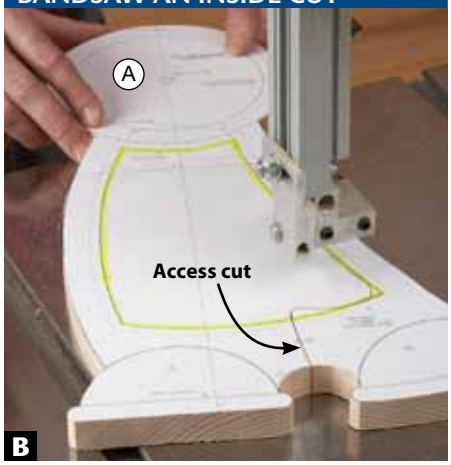
CUT THE LINE THAT SHINES



A

Make it easy to track the correct cutline by tracing it with a highlighter before going to the bandsaw.

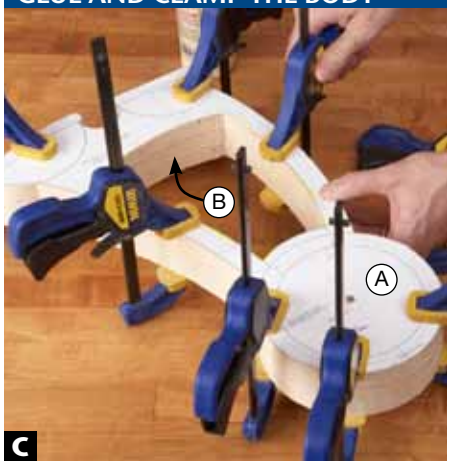
BANDSAW AN INSIDE CUT



B

Access the inside waste areas by making a cut parallel with the grain. Glue the access cuts closed before assembly.

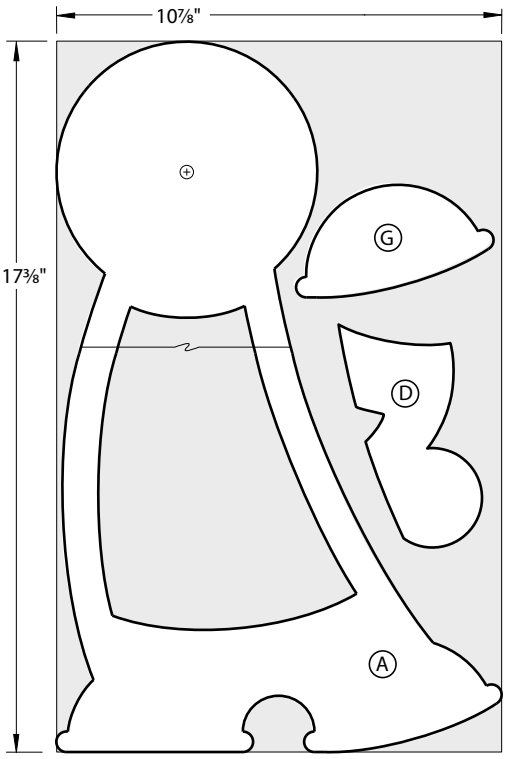
GLUE AND CLAMP THE BODY



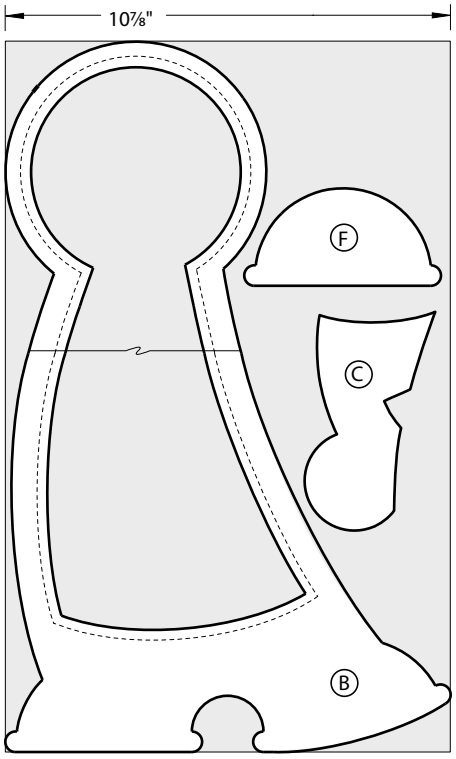
C

While gluing up the body front (A) and back (B), align the outlines as closely as possible to minimize sanding.

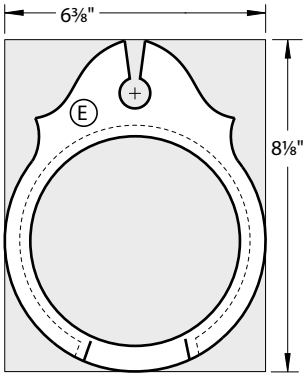
1 PARTS LAYOUT



BODY FRONT BLANK



BODY BACK BLANK



All parts cut from 1x stock. Part B laminated from two layers of 1x stock. See the instructions.

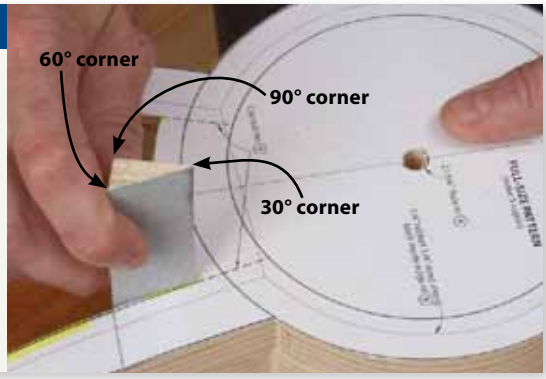
and body back together [**Photo C**]. Sand the inside and outside edges flush. We used a spindle sander and shop-made sanding blocks [**Shop Tip**, *right*], working from 100 grit up to 220 grit. Sand the arms (C, D), head (E), and shoes (F, G) to the pattern lines.

5 Clamp the shoes (F, G) to your bench and use a utility knife to cut a 1/16"-wide groove above the soles [**Photo D**]. Clean up the grooves with the folded edge of a piece of 150-grit sandpaper. Set

SHOP TIP

Wedges make a point

A wedge-shaped sanding block with three different angles makes it easy to shape corners that a spindle sander can't reach. Rip one from the edge of a wider blank. Cover the wedge with self-adhesive sandpaper or use spray adhesive to glue on regular sandpaper.



up a chamfer bit in your table-mounted router and rout ⅛" chamfers on the body front (A), arms (C, D), head (E), and shoes (F, G) where shown on the patterns. Use a splash of paint thinner to remove the patterns from all pieces. Sand these pieces to 220 grit.

6 Glue the head (E) and shoes (F, G) onto the body front (A) and sand the edges flush. Check the fit of the arms (C, D) against the body backs (B) and sand as needed to get a tight fit. Glue the arms in place [**Photo E**].

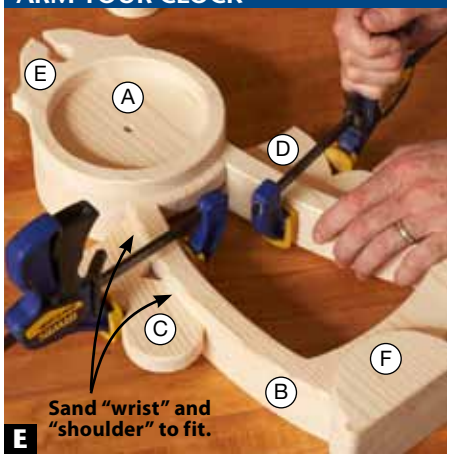
7 Rout a ¼" rabbet ¼" deep around the cavity at the rear of the body (A–G) [**Drawing 2**]. Retrieve the pattern set aside earlier, spray-adhere it to ¼" plywood, and cut out the backs (H, I), cutting just outside the dashed lines. Sand the edges of the backs to fit in the rabbets. Screw the turnbuttons to the rear of the body.

8 Apply a finish to all parts. (We stained ours with Varathane Pecan No. 218, then brushed on two coats of polyurethane varnish.)

CUT THE SHOE GROOVE

D Carve a 1⁄16"-deep V-groove by carefully cutting along the pattern lines. Deepen the groove with successive cuts if needed.

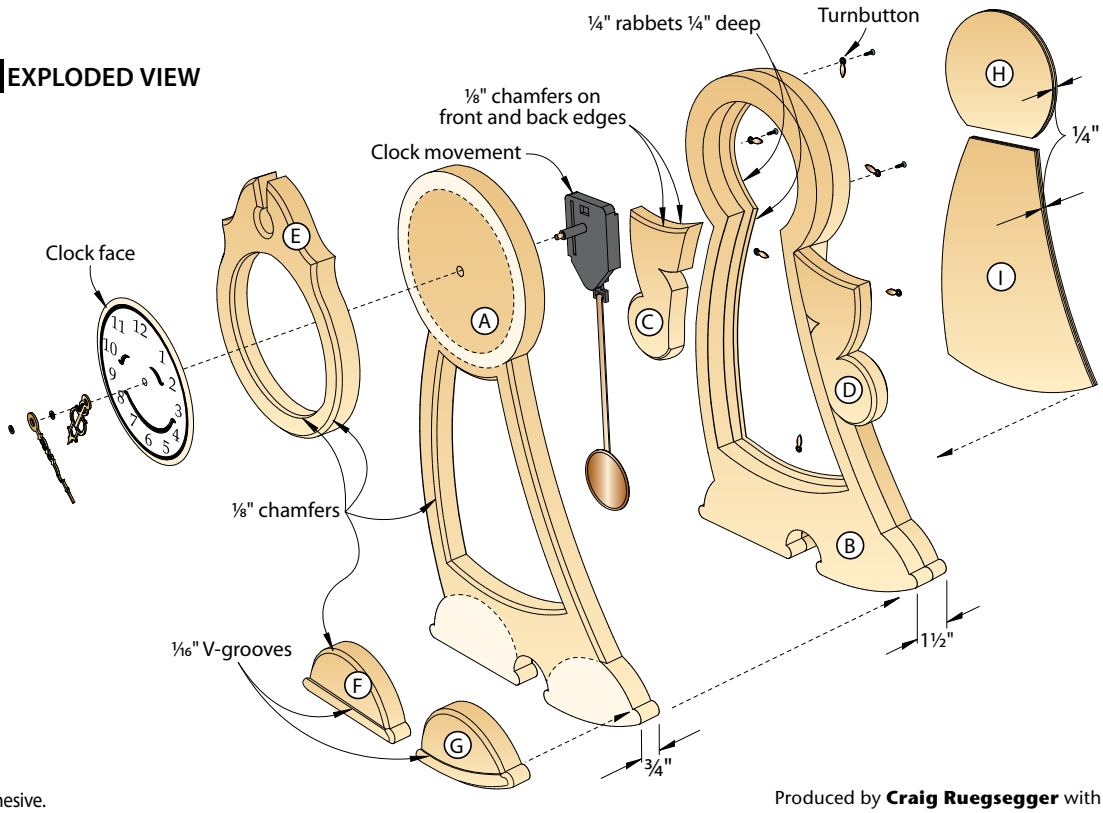
ARM YOUR CLOCK



E Glue the arms (C, D) to the body (A/B/E/F/G) centered on the thickness of the body. Use glue sparingly to minimize squeeze-out.

9 Glue the clock face to the body (A), aligning the 12 with the hole in the head (E) [**Drawing 2**]. Install the clock movement and a battery and attach the hands. Trim the pendulum arm to 6¾", hang it from the clock movement, then start the pendulum swinging. If it taps against the side of the body, rotate the clock movement slightly. Place the backs (H, I) into the rabbets in the body back (B) and tighten the turnbuttons to hold the backs in place.

2 EXPLODED VIEW

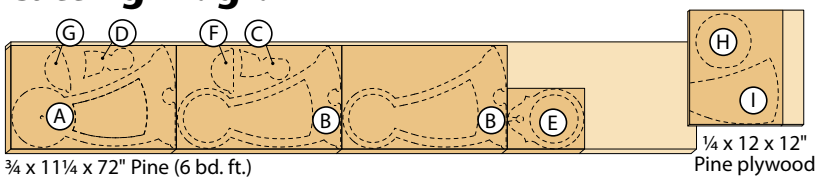


Supplies: Spray adhesive.
Blade and bits: ⅛" bandsaw blade; 21⁄64", ¾" drill bits; 45° chamfer, ¼" rabbet router bits.

Source

Hardware kit contains: ⅝" turnbuttons (8), pendulum clock movement, clock hands, clock face. Kit no. 4500, $16.95, Meisel Hardware Specialties, 800-441-9870, meiselwoodhobby.com.
Lumber: ¼x12x12" plywood, no. 4501, $3.25, Meisel Hardware Specialties.

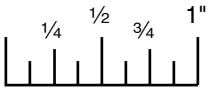
Cutting Diagram

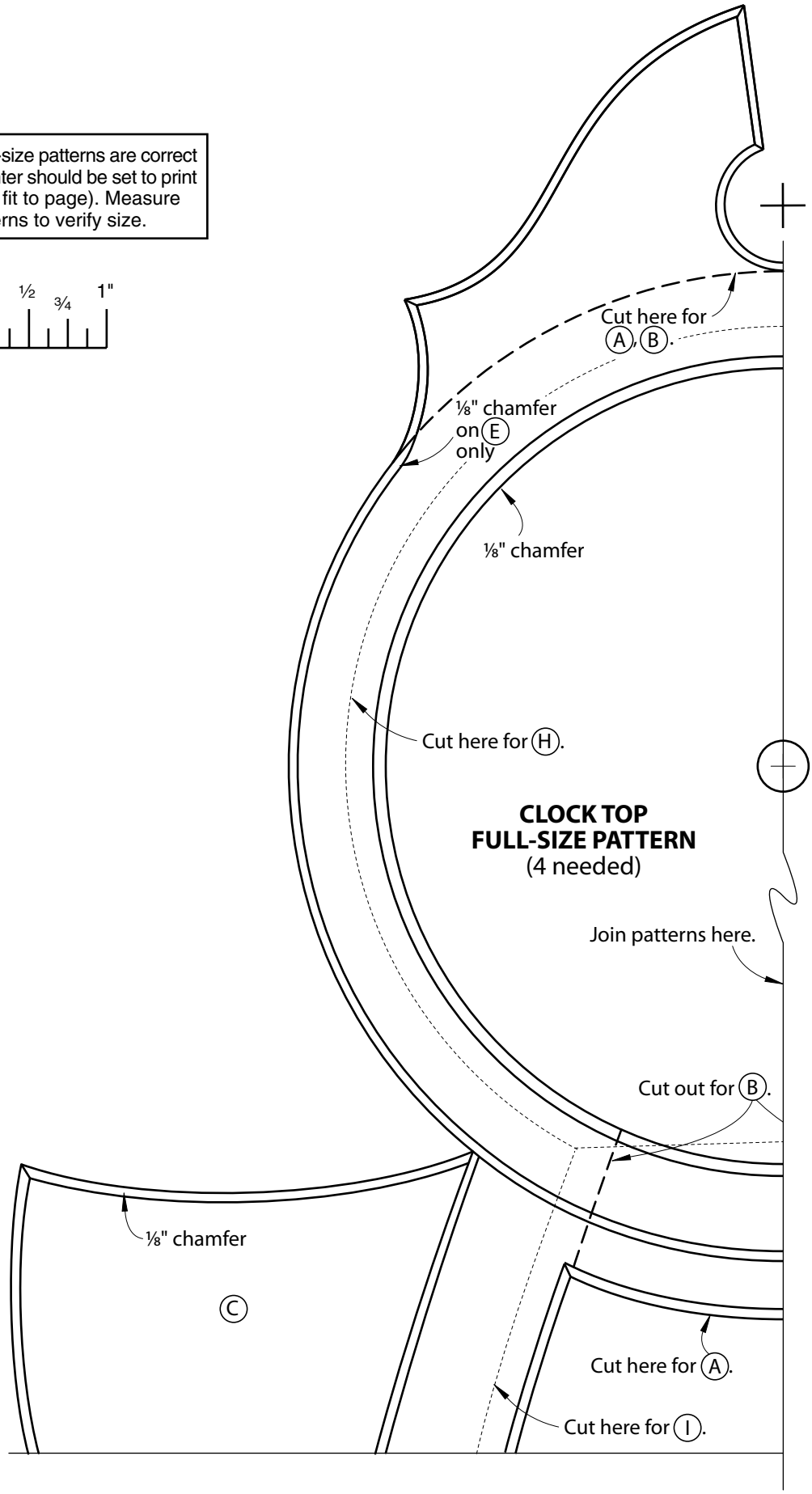


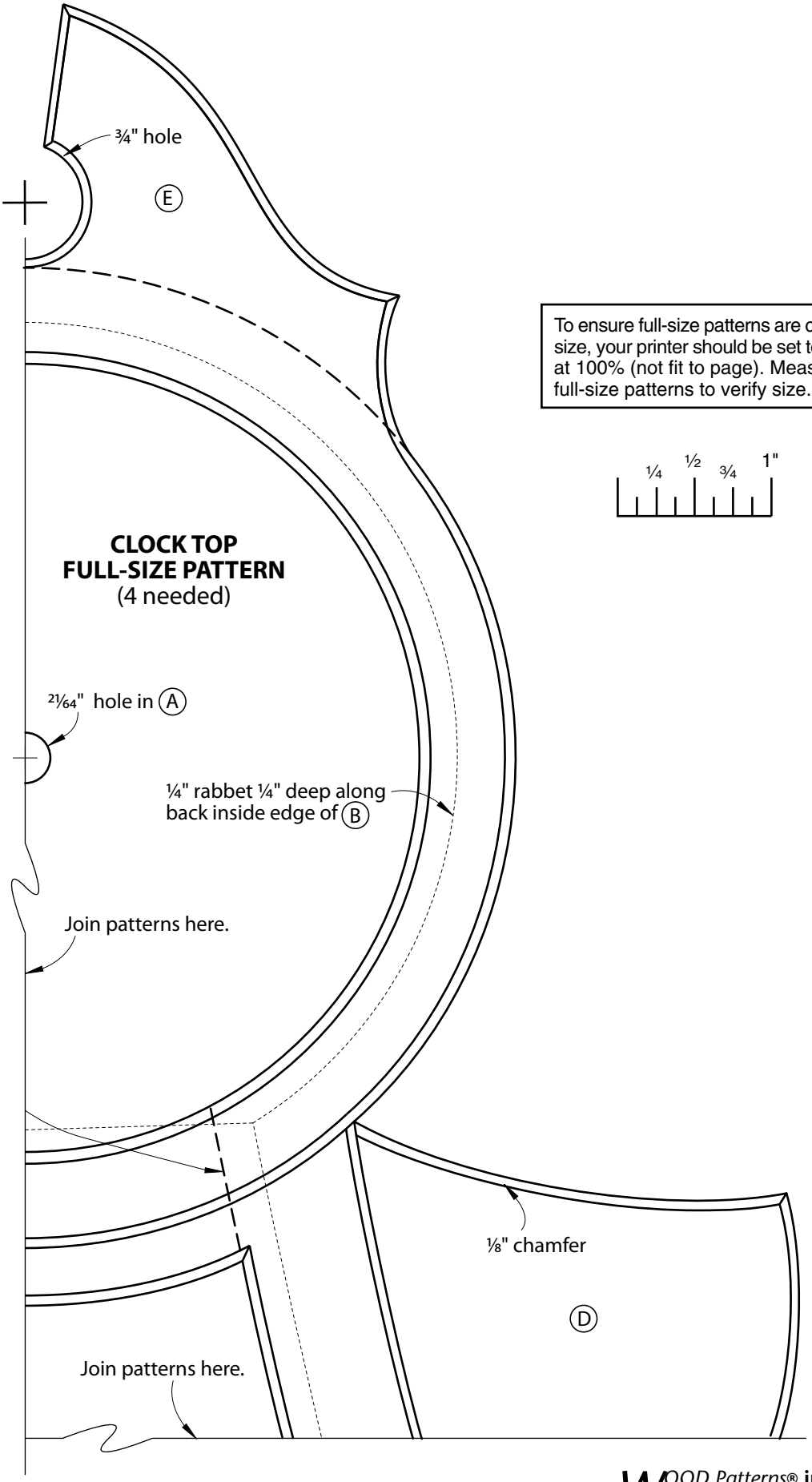
¾ x 11¼ x 72" Pine (6 bd. ft.)
¼ x 12 x 12" Pine plywood

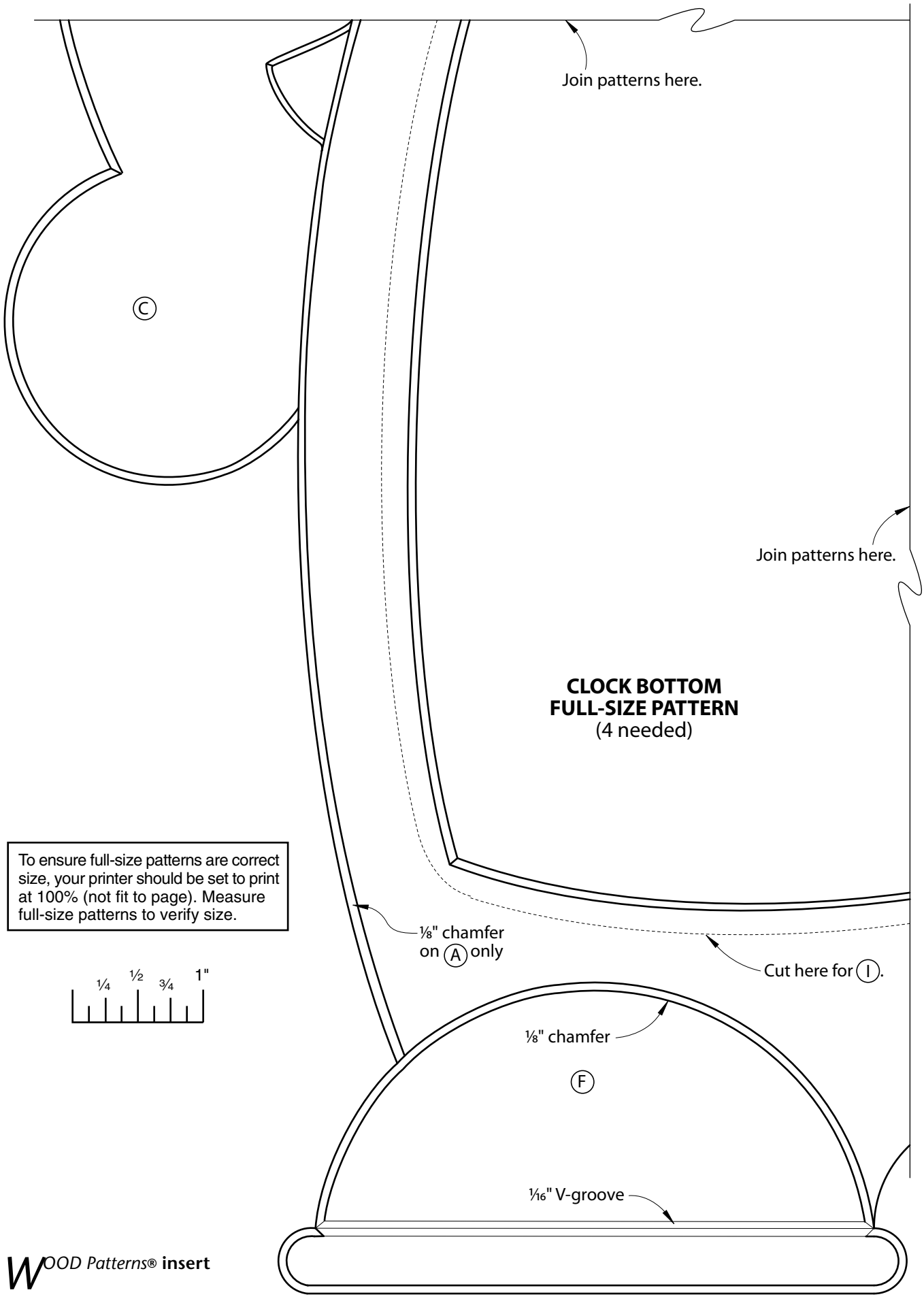
Produced by **Craig Ruegsegger** with **Kevin Boyle**
Project design: **Paul Meisel**
Illustrations: **Roxanne LeMoine**; **Lorna Johnson**

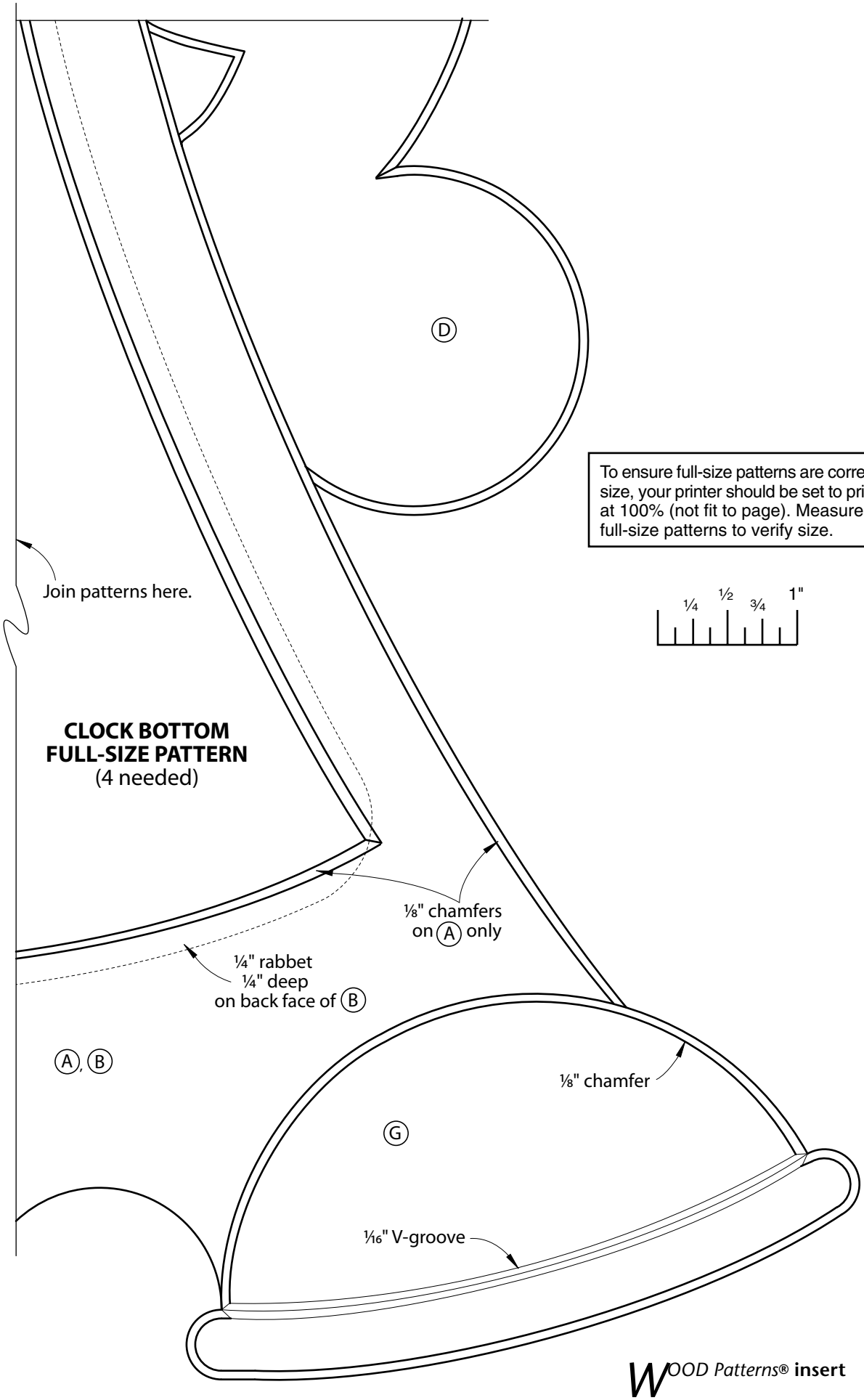
To ensure full-size patterns are correct size, your printer should be set to print at 100% (not fit to page). Measure full-size patterns to verify size.






¾" hole
E
To ensure full-size patterns are correct size, your printer should be set to print at 100% (not fit to page). Measure full-size patterns to verify size.
¼ ½ ¾ 1"
CLOCK TOP
FULL-SIZE PATTERN
(4 needed)
21/64" hole in A
¼" rabbet ¼" deep along back inside edge of B
Join patterns here.
⅛" chamfer
D
Join patterns here.


Join patterns here.
C
Join patterns here.
CLOCK BOTTOM
FULL-SIZE PATTERN
(4 needed)
To ensure full-size patterns are correct size, your printer should be set to print at 100% (not fit to page). Measure full-size patterns to verify size.
1/4
1/2
3/4
1"
1/8" chamfer on A only
Cut here for I.
1/8" chamfer
F
1/16" V-groove


Ⓓ
To ensure full-size patterns are correct size, your printer should be set to print at 100% (not fit to page). Measure full-size patterns to verify size.
Join patterns here.
¼ ½ ¾ 1"
CLOCK BOTTOM
FULL-SIZE PATTERN
(4 needed)
⅛" chamfers on Ⓐ only
¼" rabbet
¼" deep
on back face of Ⓑ
Ⓐ, Ⓑ
⅛" chamfer
Ⓖ
1/16" V-groove

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